(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 17 July 2003 (17.07.2003)

PCT

(10) International Publication Number WO 2003/058022 A3

(51) International Patent Classification7:

E21B 23/00

(21) International Application Number:

PCT/US2002/039425

(22) International Filing Date:

10 December 2002 (10.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/343.674

27 December 2001 (27.12.2001) US

(71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WADDELL, Kevin,

Karl [US/US]; 11007 Sprucedale Court, Houston, TX 77077 (US). BULLOCK, Michael, Dennis [US/GB]; The Beeches, 25 Hillhead Road, Aberdeen, AB15 9EJ (GB). HOCKADAY, Joel, Gray [US/US]; 17318 Ginger Fields Land, Tomball, TX 77375 (US). JACKSON, Tance, Alan [US/US]; 7209 Ridgemoor Lane, Plano, TX 75025 (US).

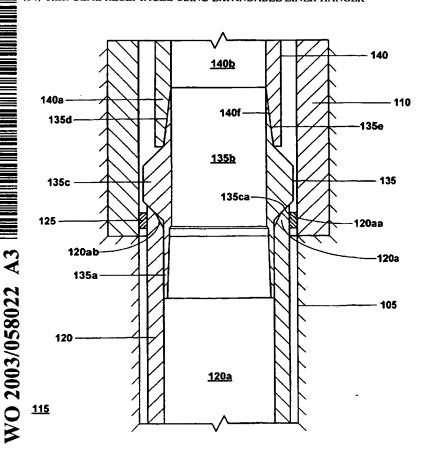
(74) Agents: MATTINGLY, Todd et al.; Haynes and Boone, LLP, Suite 4300, 1000 Louisiana Street, Houston, TX 77002-5012 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: SEAL RECEPTACLE USING EXPANDABLE LINER HANGER



(57) Abstract: The end of an expandable liner hanger (120) provides a receptacle for another tubular liner (135).

Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

- of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 8 July 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/39425

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : E21B 23/00				
US CL : 166/207,208,382				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S. : 166/207,208,382,384				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
·				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
X	US 4,601,343 A (Lindsey, Jr. et al.) 22 July 1986 (22.07.1986), Figures 1 and 2.		1,3,5,7	
	00 4,001,045 /1 (Elinaby), 31. 00 m.) 22 may 1500 (=10711500), 1.8m. to 1,000 2.			
Y	9			
x	US 4,942,925 A (Themig) 24 July, 1990 (24.07.1990), Figure 3.		1,7,8	
Y	9			
	100 A			
X	X US 4,856,592 A (Van Bilderbeek et al.) 15 August 1989 (15.08.1989), Figure 4 1,7,8			
		• '		
			L	
Further documents are listed in the continuation of Box C. See patent family annex.				
Special categories of cited documents: "T" later document published after the international filing date or				
priority date and not in conflict with the application but cited to				
	at defining the general state of the art which is not considered to nicular relevance	unacistant the principle to theory t	noctiving the invention	
"X" document of particular relevance; the claimed invention cannot be				
"E" carlier a	pplication or patent published on or after the international filing	step when the document is taken alo		
	and the second s	"Y" document of particular relevance: th	a claimed investion essent he	
to establ	n which may throw doubts on priority claim(s) or which is cited ish the publication date of another citation or other special reason	considered to involve an inventive a	· ··-··- /- /- /- /- /- /- /- /- /- /- /- /- /-	
(as speci		combined with one or more other su combination being obvious to a pers		
"O" document referring to an oral disclosure, use, exhibition or other means			en settice in me au	
		"&" document member of the same pater	t family	
priority date claimed				
Date of the actual completion of the international search Date of mailing of the international search report				
16 May 200	3 (16.05.2003)	9.0	MAY 2004	
16 May 2003 (16.05.2003) Name and mailing address of the ISA/US A		Authorized officer	1914-21 T-MM-1	
Mail Com DOT Ame, ICA HIC		Authorized officer Lynne H. Browne U. Hodgus		
Commissioner for ranges		Lynne H. Browne U. H. Co. 1959		
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 703-308-1113		
Facsimile No. (703)305-3230				

Form PCT/ISA/210 (second sheet) (July 1998)